PI 561690 to 561693. Astragalus cicer L. FABACEAE Cicer milkvetch

Donated by: Townsend, C.E., Agricultural Research Service -- USDA, Crops Research Lab., 1701 Center Avenue, Fort Collins, Colorado 80526, United States; **and** Colorado Agr. Exp. Sta.; **and** Montana Agr. Exp. Sta.. **remarks:** C-18, C-19, C-20 and C-21 Germplasms of Cicer Milkvetch. Received June 23, 1992.

PI 561690   **origin:** United States. **developed:** C.E. Townsend, R.L. Ditterline.. **origin institute:** Agricultural Research Service -- USDA, Crops Research Lab., 1701 Center Avenue, Fort Collins, Colorado 80526 United States. **cultivar:** C-18. **pedigree:** 26 parental clones trace to the following: PI 362229 (5), PI 362231 (2), PI 362234 (1), PI 362239 (1), PI 362248 (1), PI 362250 (5), PI 362251 (3), PI 362252 (1), PI 362254 (1), PI 362255 (3), PI 362264 (1), and PI 362266 (2). **other id:** GP-109. **group:** CSR-OTHER LEGUMES. **other id:** W6 10533. **group:** W6. **restricted:** CSR. **remarks:** Parental clones were selected for excellent mature plant vigor under irrigated conditions at Fort Collins, Colorado. Seed weight of the parental clones ranged from 2.91 to 3.87 g/1000 seeds with a mean of 3.30 g. Perennial. Breeding Material. Seed.

PI 561691   **origin:** United States. **developed:** C.E. Townsend, R.L. Ditterline. **origin institute:** Agricultural Research Service -- USDA, Crops Research Laboratory, 1701 Center Avenue, Fort Collins, Colorado 80526 United States. **cultivar:** C-19. **pedigree:** Traces to 10 of the 40 parental clones of cv. Monarch. Four of the 10 clones trace to the Blacksburg (VA) Composite, three to PI 206405, and three to PI 66515. **other id:** GP-110. **group:** CSR-OTHER LEGUMES. **other id:** W6 10534. **group:** W6. **restricted:** CSR. **remarks:** Selected for improved seedling emergence in the field, and mature plant vigor. Seedling emergence of the polycross progenies ranged from 82 - 144% of that of Monarch (17 seedlings/m of row) with a mean of 109%. Seed weight of the parental clones ranged from 3.46 - 5.00 g/1000 seeds with a mean of 4.07 g. Perennial. Breeding Material. Seed.